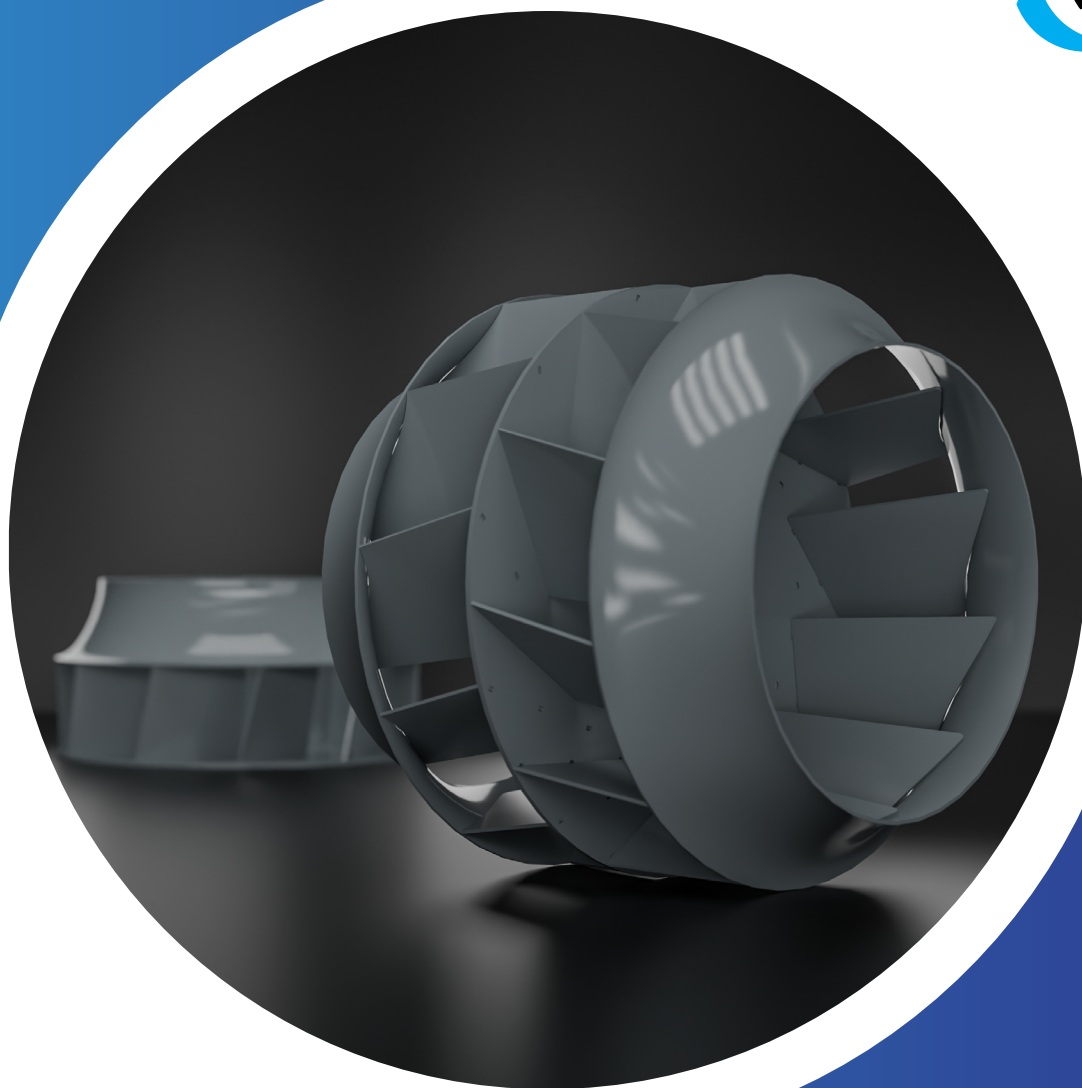




ME

SISW Direct Fans - Backward Series

2026 Products Catalogue



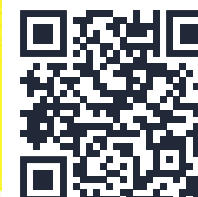
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ME remains dedicated to quality at every stage of design and manufacturing. They are **ISO 9001** certified, and their products are approved by the **Egyptian Organization for Standardization and Quality (EOS)**.

ME supplies a variety of industrial and ventilation fans for different applications, including industrial plants, commercial establishments, smoke extraction systems, and general ventilation needs.



Mechatronics Engineering (ME). certifies that the high efficiency free wheels backward Inclined fans type CF-SIB-D sizes 315 to 1000 mm as shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 211 and AMCA publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Who We Are

Since its establishment, [Mechatronics Engineering Industries \(ME\)](#) has specialized in the design and manufacture of high-performance industrial fans and accessories. Our deep-rooted expertise, combined with cutting-edge engineering technology, has positioned us as a national leader in fan manufacturing.

What sets [\(ME\)](#) apart is our application expertise and commitment to customer-focused innovation. Our engineering team is renowned for delivering fast, effective solutions whether optimizing existing fan technology or designing and prototyping custom fan systems. This dedication to problem-solving has earned us the trust of our customers, who consistently rely on us for their air-moving needs. Simply put, we don't just build fans; we engineer solutions.

Our Vision

To be a global leader in fan engineering and FRP (Fiber Reinforced Plastic) technology by driving innovation, optimizing resource consumption, and delivering cutting-edge fan solutions. We strive to outperform the competition through technological advancements, industry-leading quality, and a commitment to sustainable development. Our goal is to serve the global community with innovative, high-efficiency fan products while upholding the highest industry

Our Mission

We are dedicated to delivering high-quality products, efficient services, and competitive pricing while maintaining technical superiority. Our mission is to contribute to the advancement of global industries by providing exceptional fan technology solutions that enhance efficiency, sustainability, and performance. We remain committed to creating value for our customers, employees, and stakeholders, ensuring long-term success for all.



Research & Development

The Research & Development division is dedicated to the continuous pursuit of optimized performance, exploring product evolutions, and industrializing new solutions.

Our ME team employs cutting-edge Finite Element Method (FEM) and Computational Fluid Dynamics (CFD) technologies.

FEM - Finite Element Model

Finite element methods (FEM) are widely used to analyze and optimize industrial fan blades, particularly axial fan blades, to enhance performance, durability, and efficiency under demanding conditions like high vibration, temperature, and corrosion. FEM involves discretizing the blade into smaller elements to simulate physical behavior, such as stress, deformation, vibration, and fatigue, enabling engineers to predict performance and refine designs without costly physical prototypes. Below is a concise overview of FEM applications for industrial fan blades based on recent research and engineering practices.

We conducted the following studies as per project based on customer need:

- Stress and Deformation Analysis.
- Optimization of Blade Geometry.
- Vibration and Resonance Analysis.
- Fatigue and Failure Analysis.
- Aerodynamic and Aeroacoustic Performance.
- Material and Manufacturing Considerations.

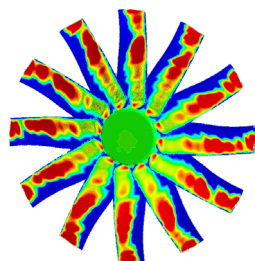
CFD - Computational Fluid Dynamics

Computational Fluid Dynamics (CFD) is a critical tool for analyzing and optimizing industrial fan performance, particularly for axial and centrifugal fans used in industries like HVAC, power generation. ME perform Aerodynamic Performance Analysis as per project based on adhoc projects and customer needs as following:

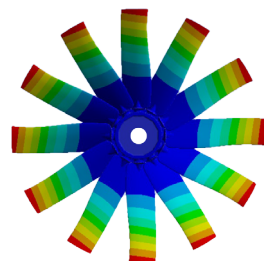
- Pressure and Flow Distribution.
- Tip Leakage and Vortices.
- Stall and Surge.
- Aeroacoustic Analysis based on blade profile.

Key benefits include:

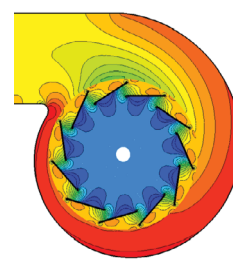
- Reduced Physical Prototypes: Limits the number of prototypes needed for laboratory testing.
- Performance Evaluations: Assesses aerodynamic performance.
- Flow Studies: Analyzes flow in specific tunnel sections.
- Infrastructure Efficiency: Verifies the efficiency of designs.



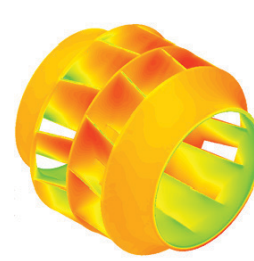
Pressure Contours
(Axial fan impeller)



Stress Analysis
(Axial fan impeller)



Pressure Contours
(Centrifugal fan)



Stress Analysis
(Centrifugal fan impeller)

Our designed fans are verified using computational fluid dynamics modeling and simulations. advanced software packages.

After completing our fans, our engineers will publish a beta version software [SelectME](#) which will be an extremely helpful tool to assist with the selection of products to meet your project requirements. The software will provide a detailed datasheets comprising efficiency, performance, sounds, wiring, dimensional data and specification. The software will also allow all obtained data to be exported to suit your needs.

Centrifugal Single Inlet Fans-Direct Type

Backward Series

Casing

The all-metal fan casing offers exceptional durability and robust construction. The centrifugal fan casings are made from heavy gauge mild sheet steel, electrostatically painted, while the volute is crafted from galvanized sheet steel. These components are rolled, flanged, fully welded, and meticulously fabricated to ensure optimal performance and longevity.

Impellers

Impeller diameter 315 to 1000 mm, Backward-Inclined blades, Welded, Dust-repellent. impellers are factory set to meet specific customer requirements.

Motors

The centrifugal fans are equipped with IEC flanged (B5) or (B35) standard motors, featuring IP55 protection. They are suitable for operation with frequency inverters and come with a standard industrial paint finish and Class [F] insulation. The motors are wired using a weatherproof cable for added durability.

Quality Management

Fans are designed and manufactured with procedures as defined in ISO 9001.

Variants

4 and 6 poles motors are available and can be controlled by VSD. Performance data sheets are available for each impeller diameter, blade angle and speed. Each of our data sheets contains complete air performance characteristics. This includes sound data across the frequency spectrum.



Centrifugal Single Inlet Fans-Direct Type

Backward Series

Fan Components and Material Properties:

The fan housing is made of high quality galvanized steel which resistant to corrosion. All Models have asynchronous Motors and main body with steel carriers. The motors are IP55 class, 2/4/6 and 8-poles motors, Efficiency class IE3 and class [F] insulated. The device is capable of exhaust air at maximum temperature 50 °C.

Fan Structure:

Single suction, backward high pressure centrifugal type fan. The fan impeller is manufactured from high strength resistant welded steel and streamlined to provide regular flow. Suitable aerodynamic wing structure, it works silently. The fan impeller is dynamically balanced based on ISO 14694 and AMCA 204 standards.

Benefits:

Produces high pressure with backward curved blade structure. They provide maximum performance with low energy. The fan body can rotate the fan rotor at high speeds.

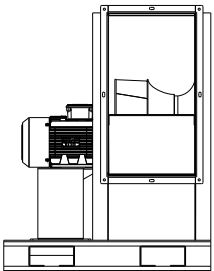
Usage Areas:

In the extraction of clean air, industrial areas, domestic and industrial air conditioning system, mine and tunnel ventilation.

Designation Key:

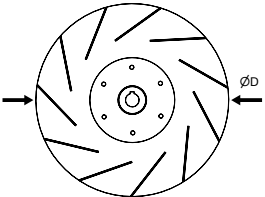
CF-SIB-D-500-4T-4 (e.g.)

CF-S



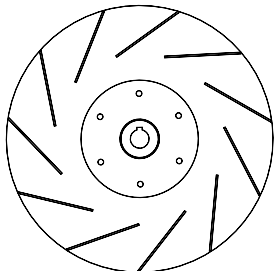
SISW Centrifugal Fan

500



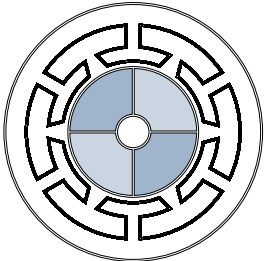
Diameter in mm

I



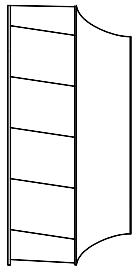
Blades Type

4



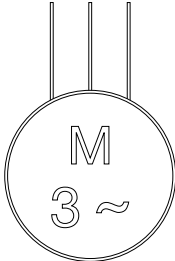
No. of Poles

B



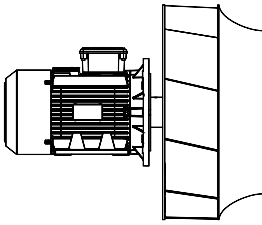
Impeller Type

T



No. of Phases

D



Driver Type

4

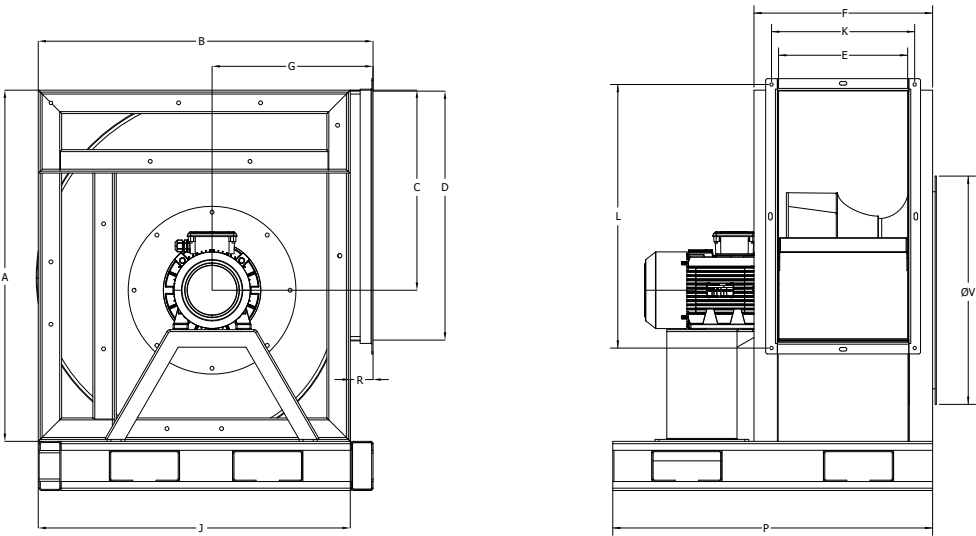


Motor Power in HP

Centrifugal Single Inlet Fans-Direct Type

Backward Series

Geometric Characteristics

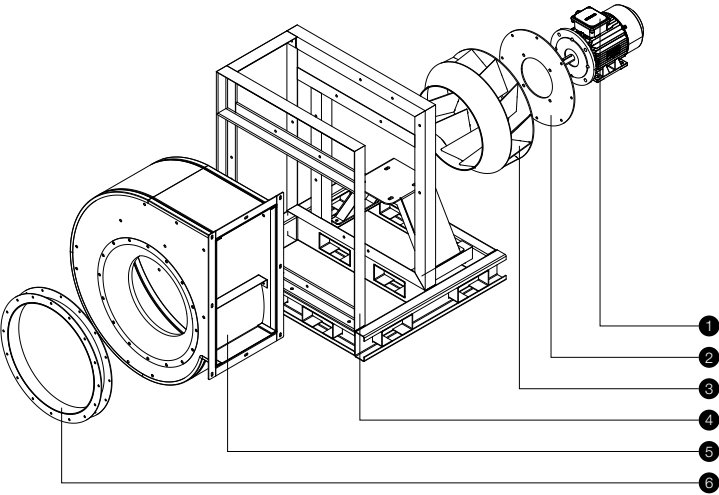


All Dimensions in mm

MODEL	A	B	C	D	E	F	G	J	K	L	P	R	ØV
CF-SIB-D-315	585	560	331	398	229	293	262	535	271	440	555	25	415
CF-SIB-D-355	650	610	368	449	249	323	283	582	290	489	612	28	442
CF-SIB-D-400	724	667	409	507	271	356	307	635	312	545	677	32	472
CF-SIB-D-450	812	763	461	574	301	402	360	718	340	610	749	45	529
CF-SIB-D-500	900	858	512	640	331	448	412	800	367	675	820	58	585
CF-SIB-D-560	1011	952	573	714	373	493	450	892	419	760	871	60	652
CF-SIB-D-630	1140	1062	645	800	421	545	495	1000	480	860	930	62	730
CF-SIB-D-710	1253	1160	707	949	498	622	536	1094	549	999	1024	66	810
CF-SIB-D-800	1380	1271	776	1116	585	709	583	1200	627	1155	1130	71	900
CF-SIB-D-900	1543	1417	881	1208	630	755	654	1340	682	1259	1225	77	1025
CF-SIB-D-1000	1705	1562	985	1300	674	800	725	1480	736	1363	1320	82	1150

Bill of Materials Characteristics

- 1. Electrical Motor
- 2. Volute Plate
- 3. Backward Impeller
- 4. Fan Frame & Base
- 5. SISW Centrifugal Volute
- 6. Matching Flange



CF-SIB-D-315

CF-S Series

Nominal Diameter
315 mm

Impeller Type
SISW Backward

Driver Type
Direct



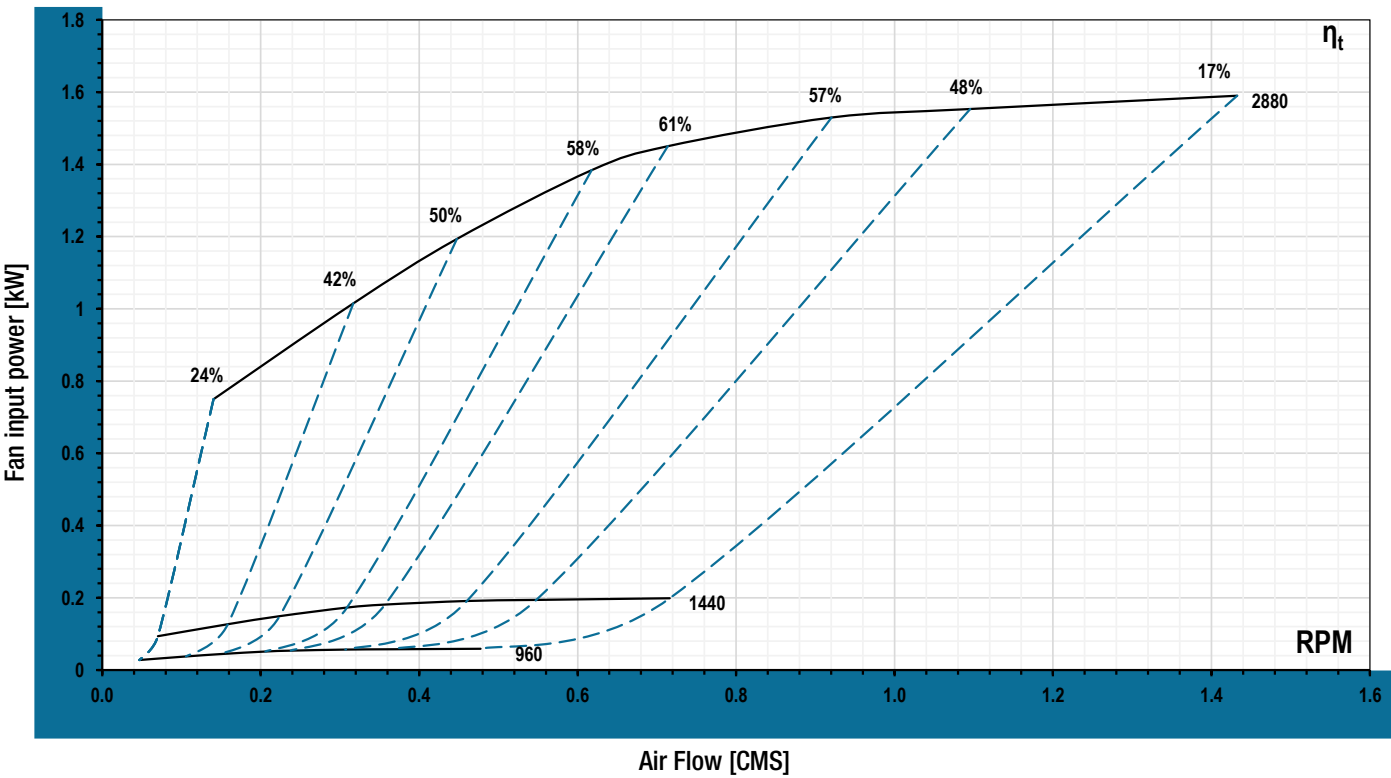
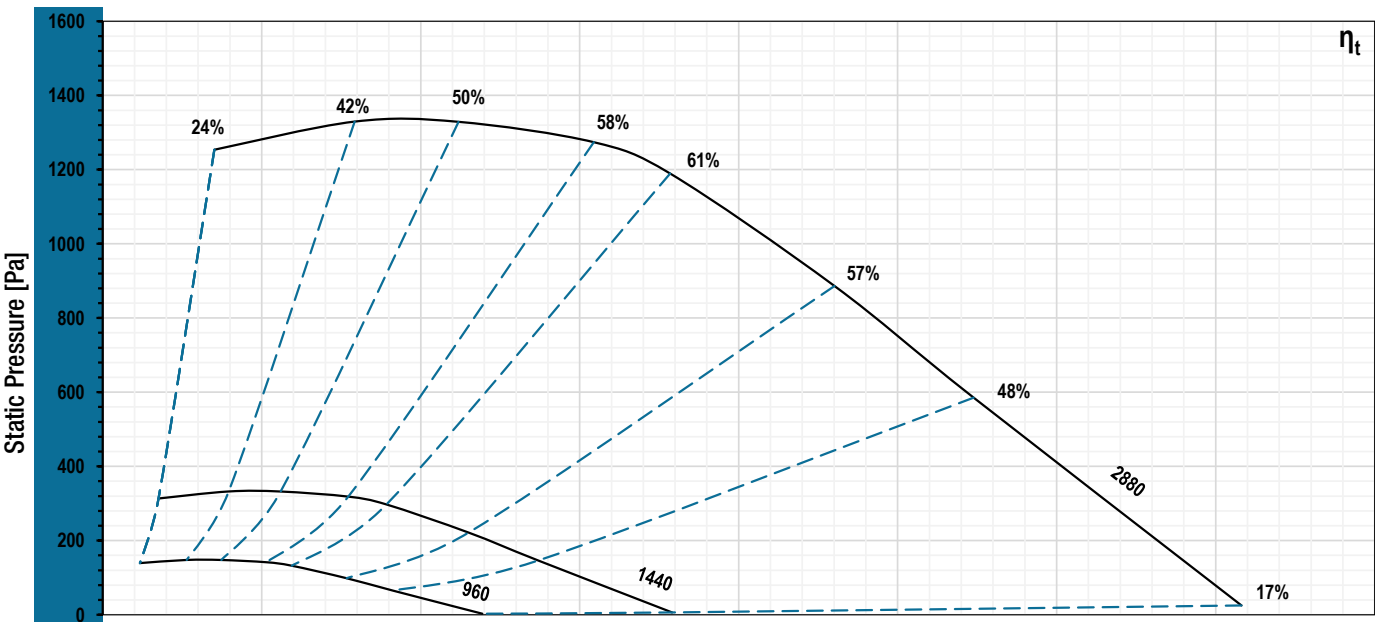
Technical Specifications

Performance Shown in diagrams refer to air density 1.2 kg/m³.
Performance tested is for installation type B - free inlet, ducted outlet.
Power rating (kW) does not include transmission losses.
Performance ratings do not include the effects of accessories.

BS ISO 5801 : 2017
AMCA 210 : 2025
Type B Installation



Curve Performance



CF-SIB-D-315

Acoustic Performance

Inlet Sound Power Level												
Fan Speed	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	Lwi (dB)	LwiA (dB)
2880 RPM	0.45	1328.9	80.5	79.7	84.4	81.2	80.3	71.2	66.7	62.7	89.5	83.8
	0.71	1189.4	80.4	79.6	84.3	81.1	80.2	71.1	66.6	62.6	89.4	83.6
	0.92	886.3	80.9	80.1	84.8	81.6	80.7	71.6	67.1	63.1	89.9	84.2
1440 RPM	0.22	332.2	71.5	70.7	75.4	72.2	71.3	62.2	57.7	53.7	80.5	74.7
	0.36	297.4	71.4	70.6	75.3	72.1	71.2	62.1	57.6	53.6	80.4	74.6
	0.46	221.6	71.9	71.1	75.8	72.6	71.7	62.6	58.1	54.1	80.9	75.1
960 RPM	0.15	147.7	66.2	65.4	70.1	66.9	66	56.9	52.4	48.4	75.2	69.4
	0.24	132.2	66.1	65.3	70	66.8	65.9	56.8	52.3	48.3	75.1	69.3
	0.31	98.5	66.6	65.8	70.5	67.3	66.4	57.3	52.8	48.8	75.6	69.9

Values shown are for (inlet Lwi and inlet LwiA) sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12 per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction.

CF-SIB-D-355

CF-S Series

Nominal Diameter
355 mm

Impeller Type
SISW Backward

Driver Type
Direct



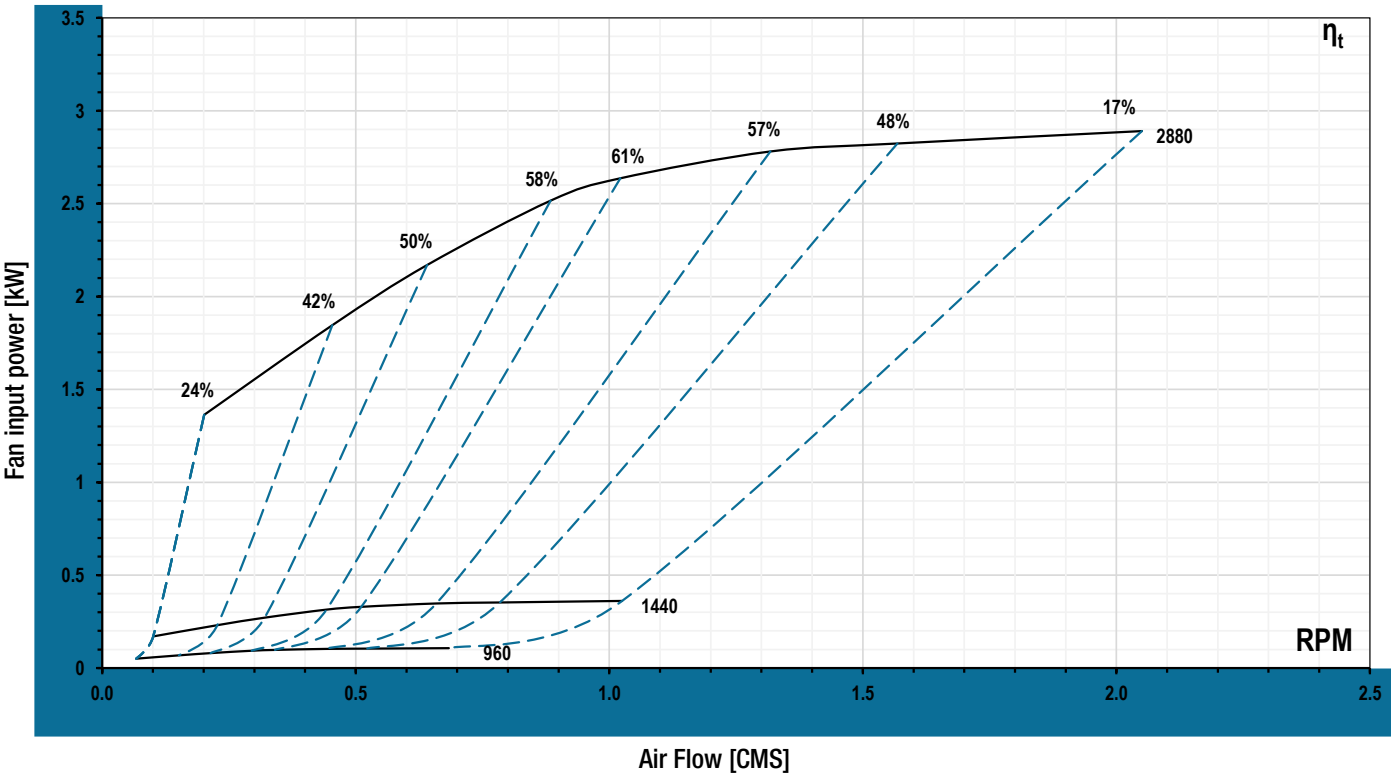
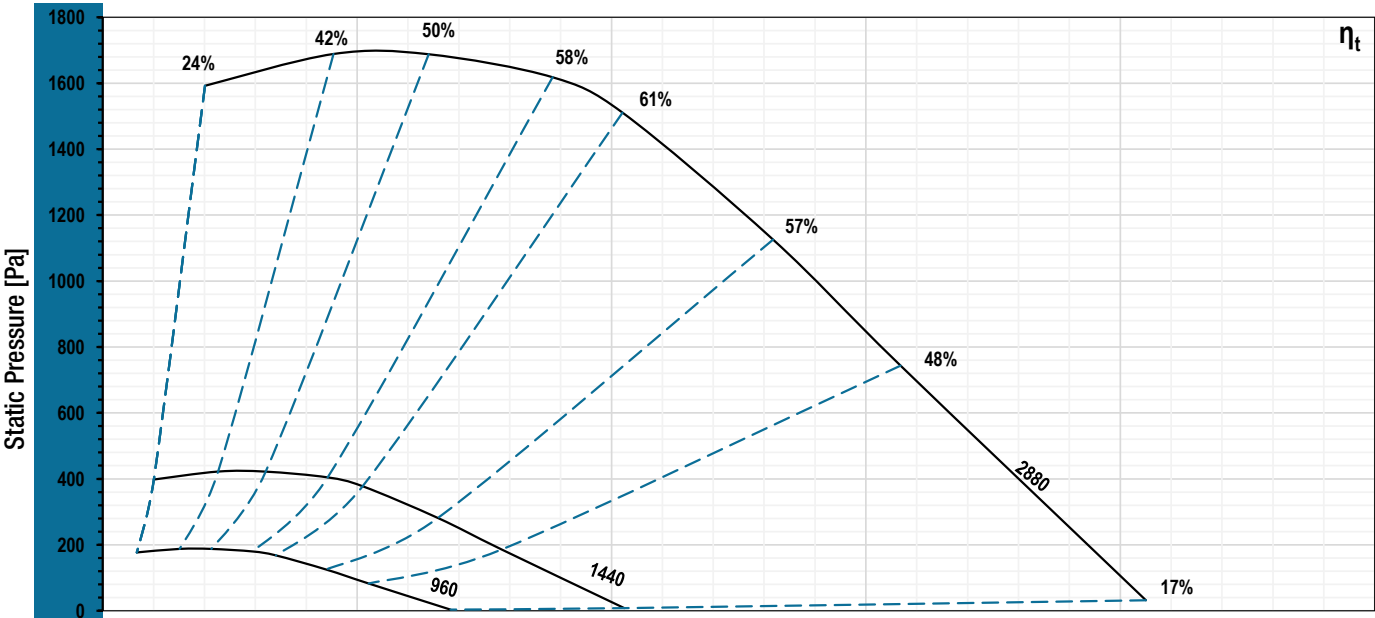
Technical Specifications

Performance Shown in diagrams refer to air density 1.2 kg/m³.
Performance tested is for installation type B - free inlet, ducted outlet.
Power rating (kW) does not include transmission losses.
Performance ratings do not include the effects of accessories.

BS ISO 5801 : 2017
AMCA 210 : 2025
Type B Installation



Curve Performance



CF-SIB-D-355

Acoustic Performance

Inlet Sound Power Level												
Fan Speed	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	Lwi (dB)	LwiA (dB)
2880 RPM	0.64	1687.8	83.1	82.3	87	83.8	82.9	73.8	69.3	65.3	92.1	86.4
	1.02	1510.7	83	82.2	86.9	83.7	82.8	73.7	69.2	65.2	92	86.2
	1.32	1125.6	83.5	82.7	87.4	84.2	83.3	74.2	69.7	65.7	92.5	86.8
1440 RPM	0.32	421.9	74.1	73.3	78	74.8	73.9	64.8	60.3	56.3	83.1	77.3
	0.51	377.7	74	73.2	77.9	74.7	73.8	64.7	60.2	56.2	83	77.2
	0.66	281.4	74.5	73.7	78.4	75.2	74.3	65.2	60.7	56.7	83.5	77.7
960 RPM	0.21	187.5	68.8	68	72.7	69.5	68.6	59.5	55	51	77.8	72
	0.34	167.9	68.7	67.9	72.6	69.4	68.5	59.4	54.9	50.9	77.7	71.9
	0.44	125.1	69.2	68.4	73.1	69.9	69	59.9	55.4	51.4	78.2	72.4

Values shown are for (inlet Lwi and inlet LwiA) sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12 per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction.

CF-SIB-D-400

CF-S Series



Nominal Diameter
400 mm



Impeller Type
SISW Backward



Driver Type
Direct

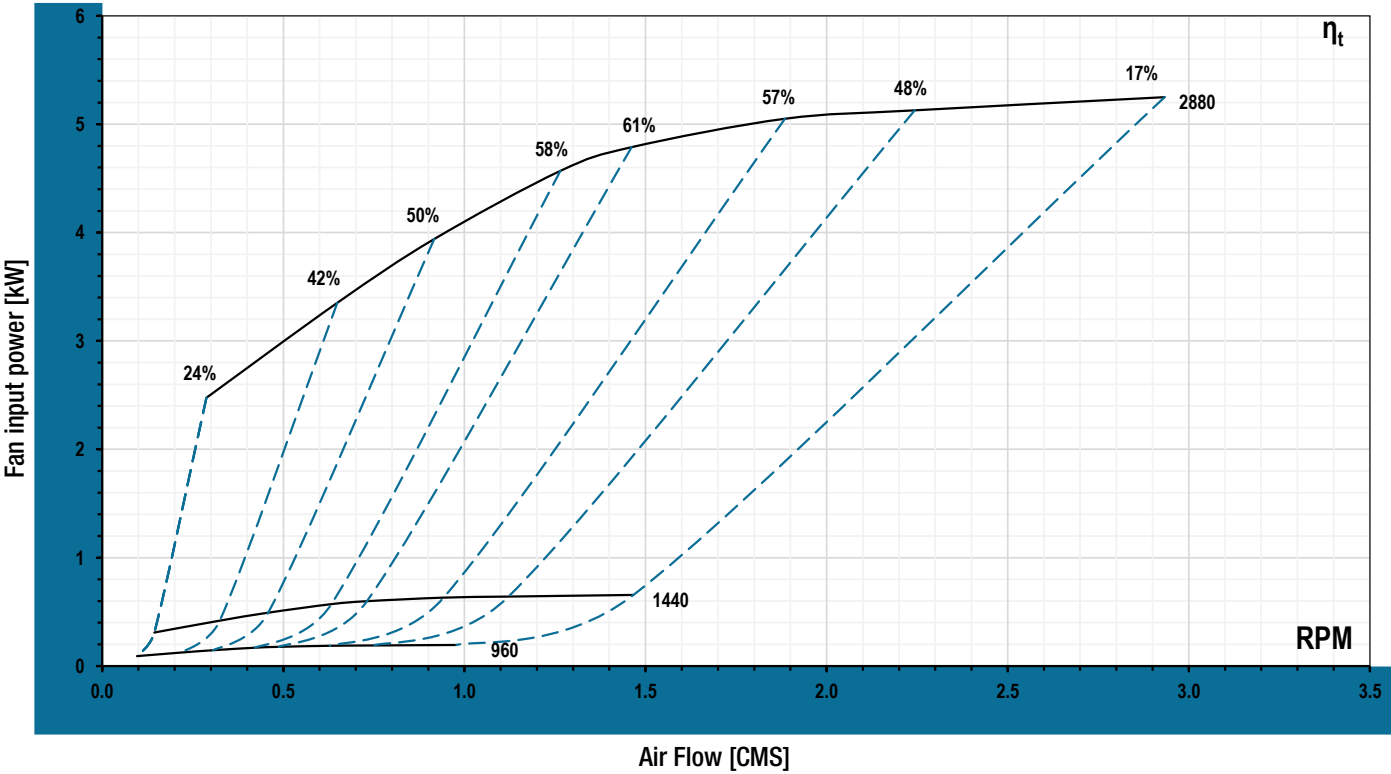
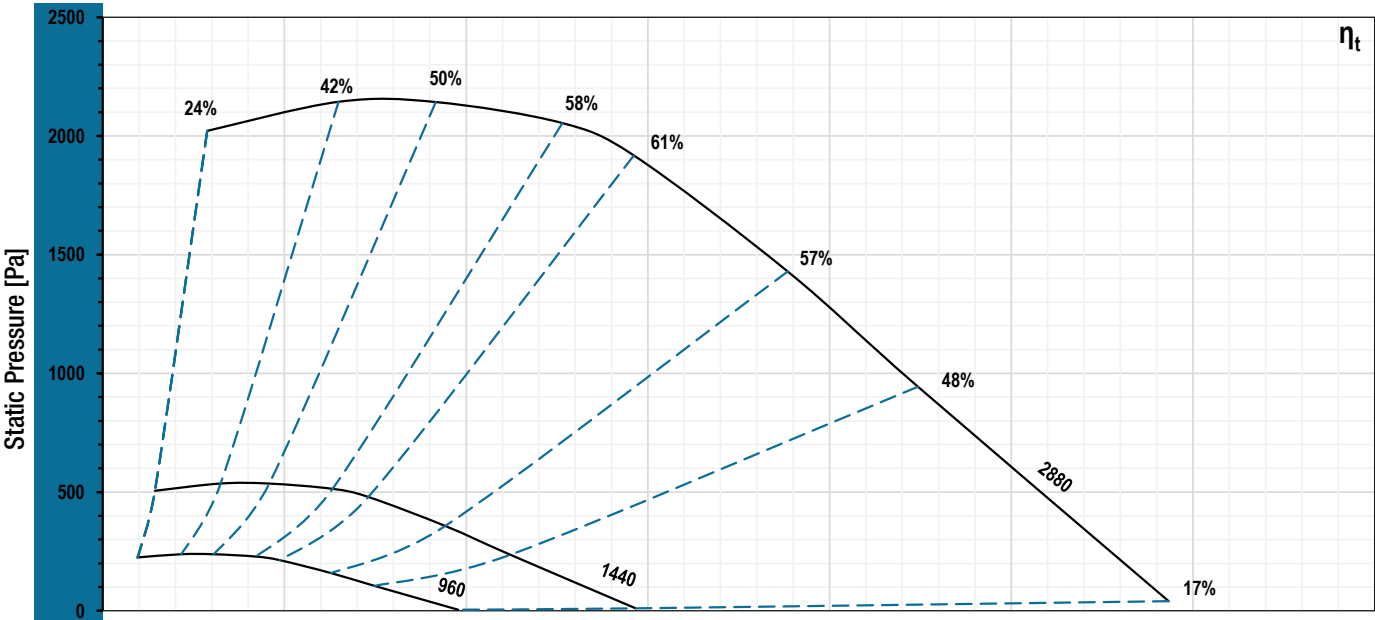


Technical Specifications

Performance Shown in diagrams refer to air density 1.2 kg/m³.
Performance tested is for installation type B - free inlet, ducted outlet.
Power rating (kW) does not include transmission losses.
Performance ratings do not include the effects of accessories.
BS ISO 5801 : 2017
AMCA 210 : 2025
Type B Installation



Curve Performance



CF-SIB-D-400

Acoustic Performance

Inlet Sound Power Level												
Fan Speed	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	Lwi (dB)	LwiA (dB)
2880 RPM	0.92	2142.8	85.7	84.9	89.6	86.4	85.5	76.4	71.9	67.9	94.7	88.9
	1.46	1918	85.6	84.8	89.5	86.3	85.4	76.3	71.8	67.8	94.6	88.8
	1.88	1429.1	86.1	85.3	90	86.8	85.9	76.8	72.3	68.3	95.1	89.4
1440 RPM	0.46	535.7	76.7	75.9	80.6	77.4	76.5	67.4	62.9	58.9	85.7	79.9
	0.73	479.5	76.6	75.8	80.5	77.3	76.4	67.3	62.8	58.8	85.6	79.8
	0.94	357.3	77.1	76.3	81	77.8	76.9	67.8	63.3	59.3	86.1	80.3
960 RPM	0.31	238.1	71.4	70.6	75.3	72.1	71.2	62.1	57.6	53.6	80.4	74.6
	0.49	213.1	71.3	70.5	75.2	72	71.1	62	57.5	53.5	80.3	74.5
	0.63	158.8	71.8	71	75.7	72.5	71.6	62.5	58	54	80.8	75

Values shown are for (inlet Lwi and inlet LwiA) sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12 per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction.

CF-SIB-D-450

CF-S Series

Nominal Diameter
450 mm

Impeller Type
SISW Backward

Driver Type
Direct

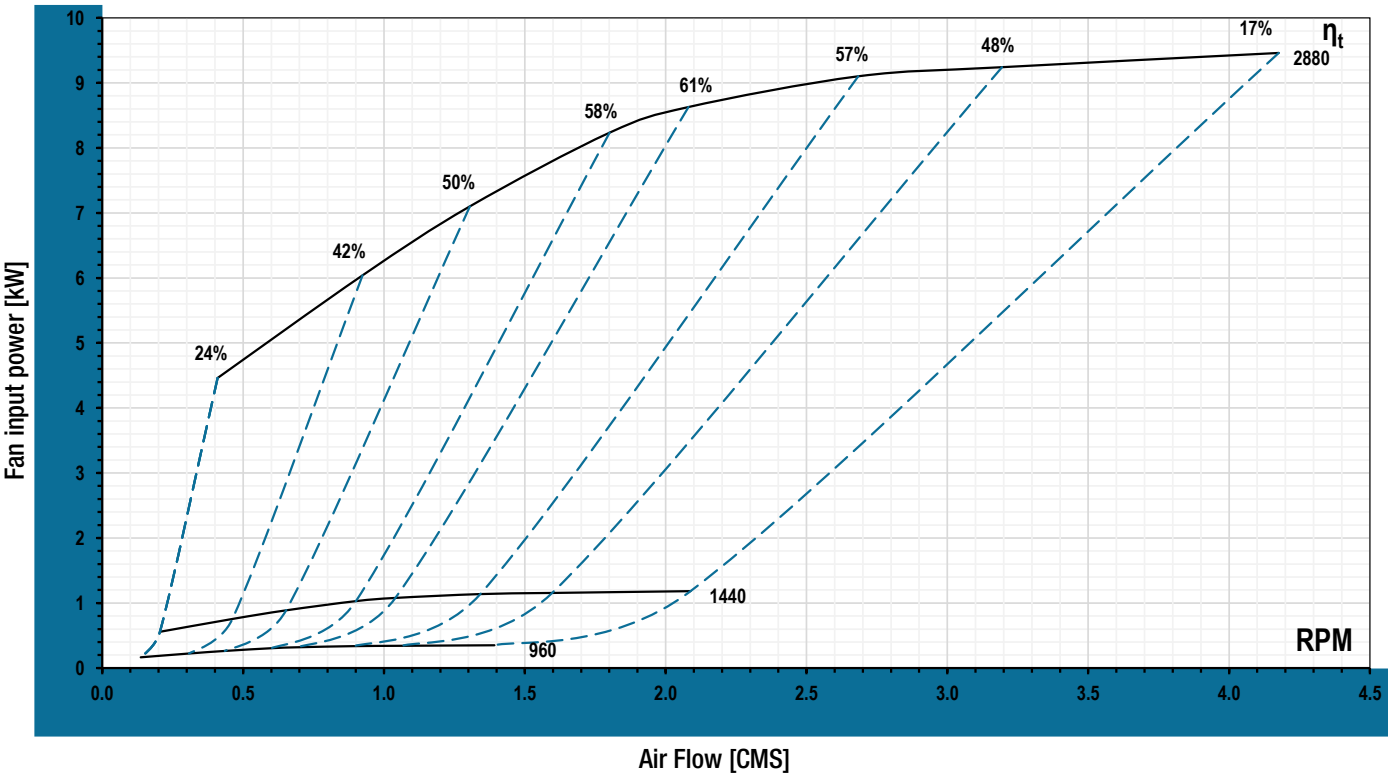
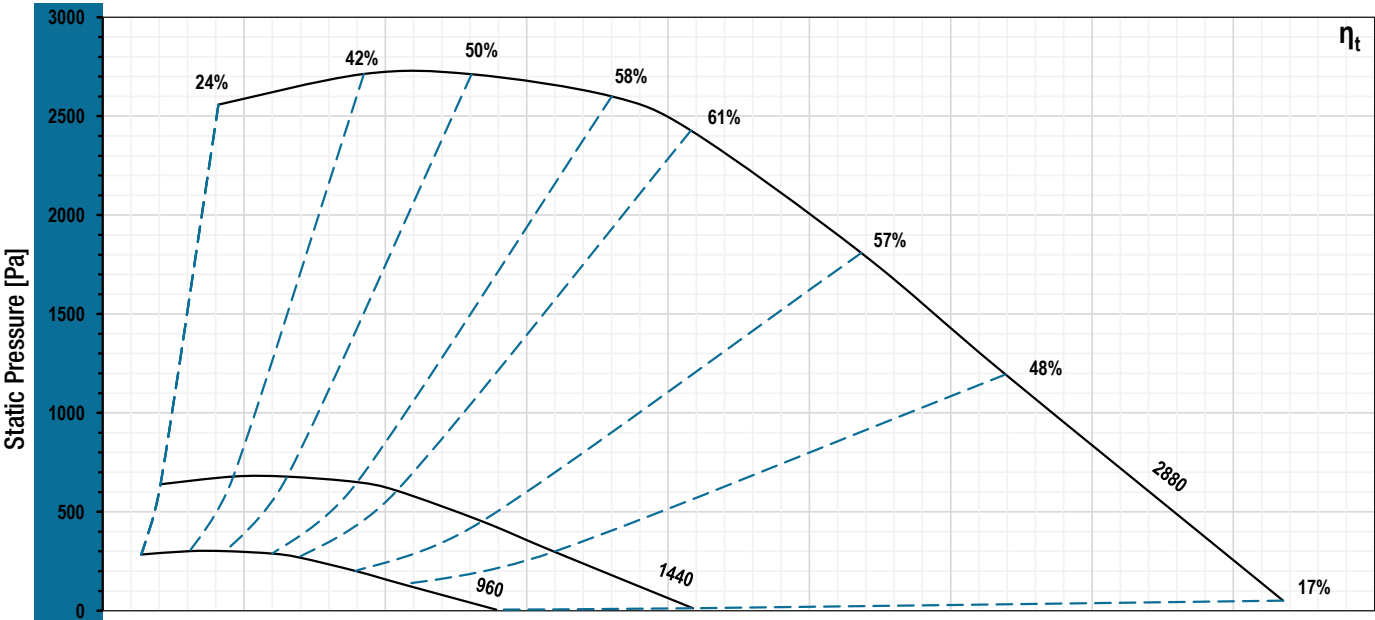


Technical Specifications

Performance Shown in diagrams refer to air density 1.2 kg/m³.
Performance tested is for installation type B - free inlet, ducted outlet.
Power rating (kW) does not include transmission losses.
Performance ratings do not include the effects of accessories.
BS ISO 5801 : 2017
AMCA 210 : 2025
Type B Installation



Curve Performance



CF-SIB-D-450

Acoustic Performance

Inlet Sound Power Level												
Fan Speed	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	Lwi (dB)	LwiA (dB)
2880 RPM	1.30	2712	88.3	87.5	92.2	89	88.1	79	74.5	70.5	97.3	91.5
	2.08	2427.4	88.2	87.4	92.1	88.9	88	78.9	74.4	70.4	97.2	91.4
	2.68	1808.7	90.7	87.9	92.6	89.4	88.5	86.6	81.7	78.2	97.7	93.5
1440 RPM	0.65	678	79.3	78.5	83.2	80	79.1	70	65.5	61.5	88.3	82.5
	1.04	606.9	79.1	78.3	83	79.8	78.9	69.8	65.3	61.3	88.1	82.3
	1.34	452.2	79.7	78.9	83.6	80.4	79.5	70.4	65.9	61.9	88.7	82.9
960 RPM	0.43	301.3	74	73.2	77.9	74.7	73.8	64.7	60.2	56.2	83	77.2
	0.69	269.7	73.8	73	77.7	74.5	73.6	64.5	60	56	82.8	77.1
	0.89	201	74.4	73.6	78.3	75.1	74.2	65.1	60.6	56.6	83.4	77.6

Values shown are for (inlet Lwi and inlet LwiA) sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12 per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction.

CF-SIB-D-500

CF-S Series

Nominal Diameter
500 mm

Impeller Type
SISW Backward

Driver Type
Direct



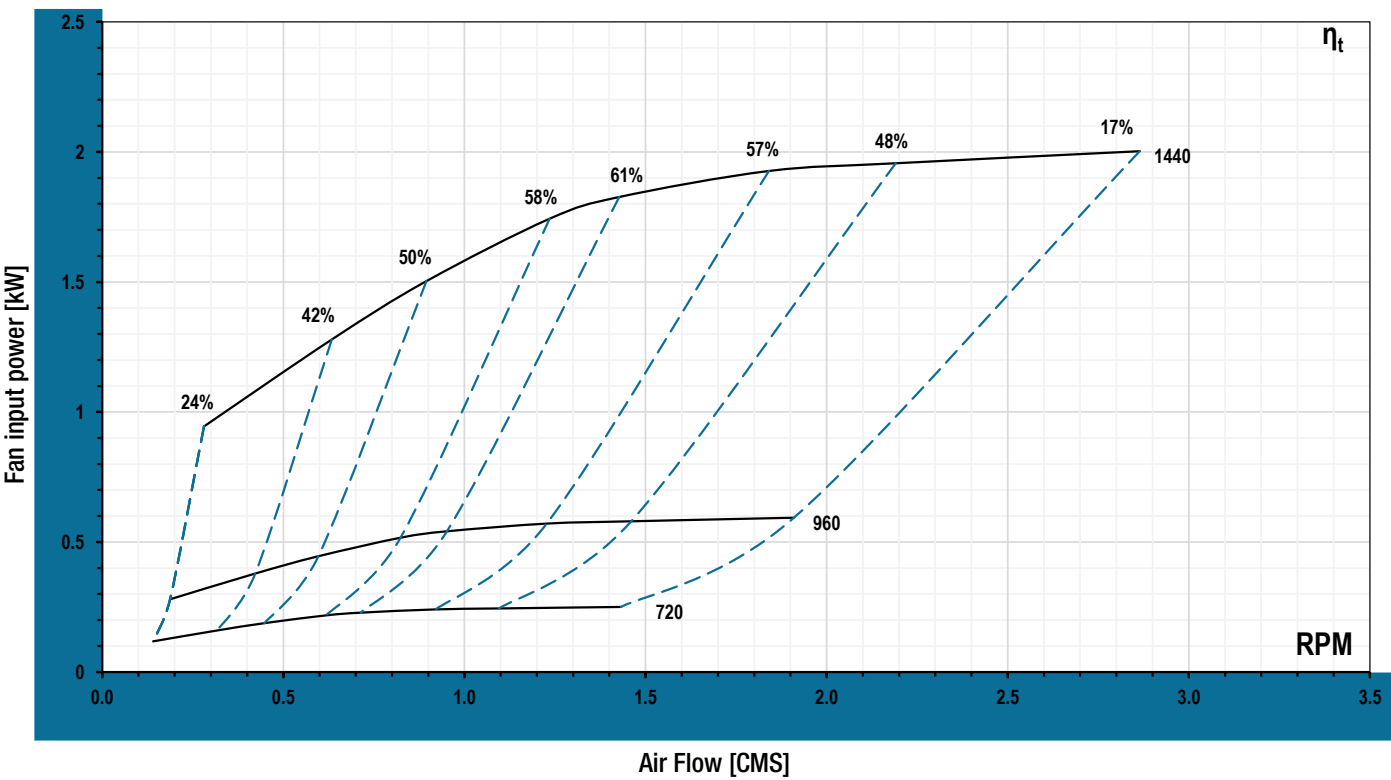
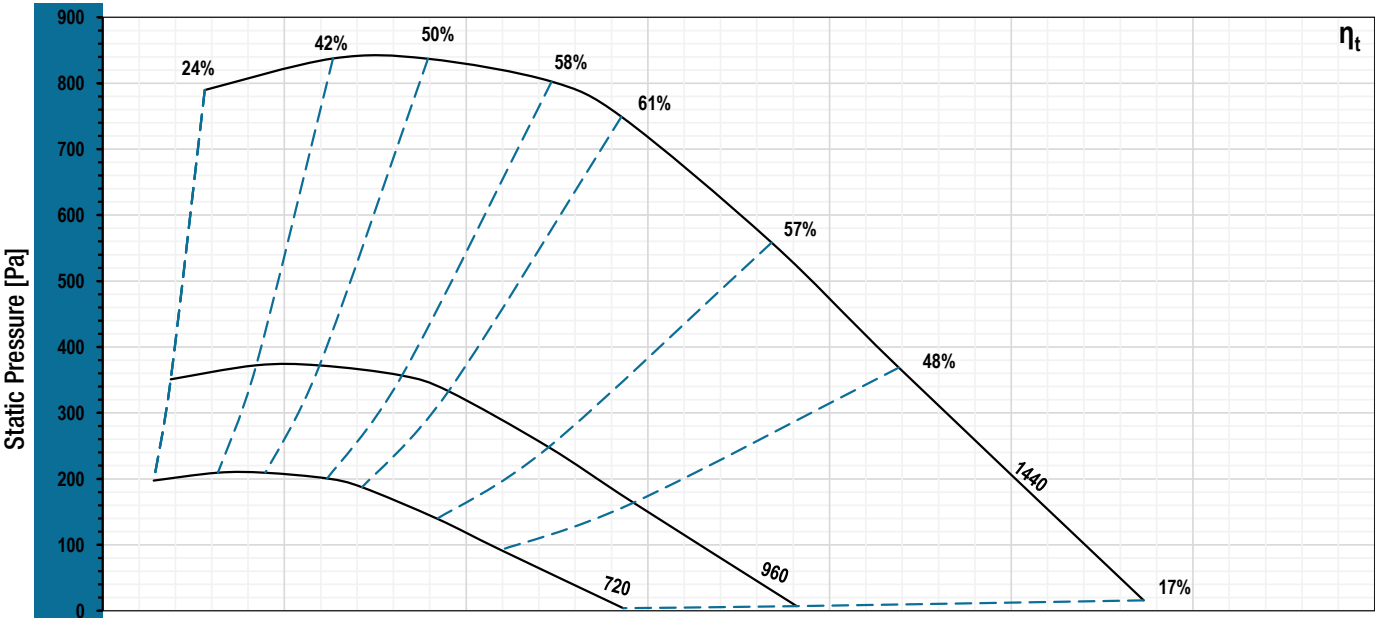
Technical Specifications

Performance Shown in diagrams refer to air density 1.2 kg/m³.
Performance tested is for installation type B - free inlet, ducted outlet.
Power rating (kW) does not include transmission losses.
Performance ratings do not include the effects of accessories.

BS ISO 5801 : 2017
AMCA 210 : 2025
Type B Installation



Curve Performance



CF-SIB-D-500

Acoustic Performance

Inlet Sound Power Level												
Fan Speed	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	Lwi (dB)	LwiA (dB)
1440 RPM	0.90	837	81.5	80.7	85.4	82.2	81.3	72.2	67.7	63.7	90.5	84.8
	1.43	749.2	81.4	80.6	85.3	82.1	81.2	72.1	67.6	63.6	90.4	84.6
	1.84	558.2	81.9	81.1	85.8	82.6	81.7	72.6	68.1	64.1	90.9	85.2
960 RPM	0.60	372	76.3	75.5	80.2	77	76.1	67	62.5	58.5	85.3	79.5
	0.95	333	76.1	75.3	80	76.8	75.9	66.8	62.3	58.3	85.1	79.4
	1.23	248.1	76.7	75.9	80.6	77.4	76.5	67.4	62.9	58.9	85.7	79.9
720 RPM	0.45	209.3	72.5	71.7	76.4	73.2	72.3	63.2	58.7	54.7	81.5	75.7
	0.71	187.3	72.4	71.6	76.3	73.1	72.2	63.1	58.6	54.6	81.4	75.6
	0.92	139.6	72.9	72.1	76.8	73.6	72.7	63.6	59.1	55.1	81.9	76.1

Values shown are for (inlet Lwi and inlet LwiA) sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12 per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction.

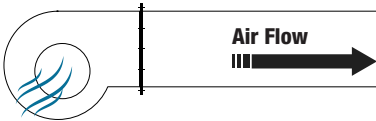
CF-SIB-D-560

CF-S Series

Nominal Diameter
560 mm

Impeller Type
SISW Backward

Driver Type
Direct



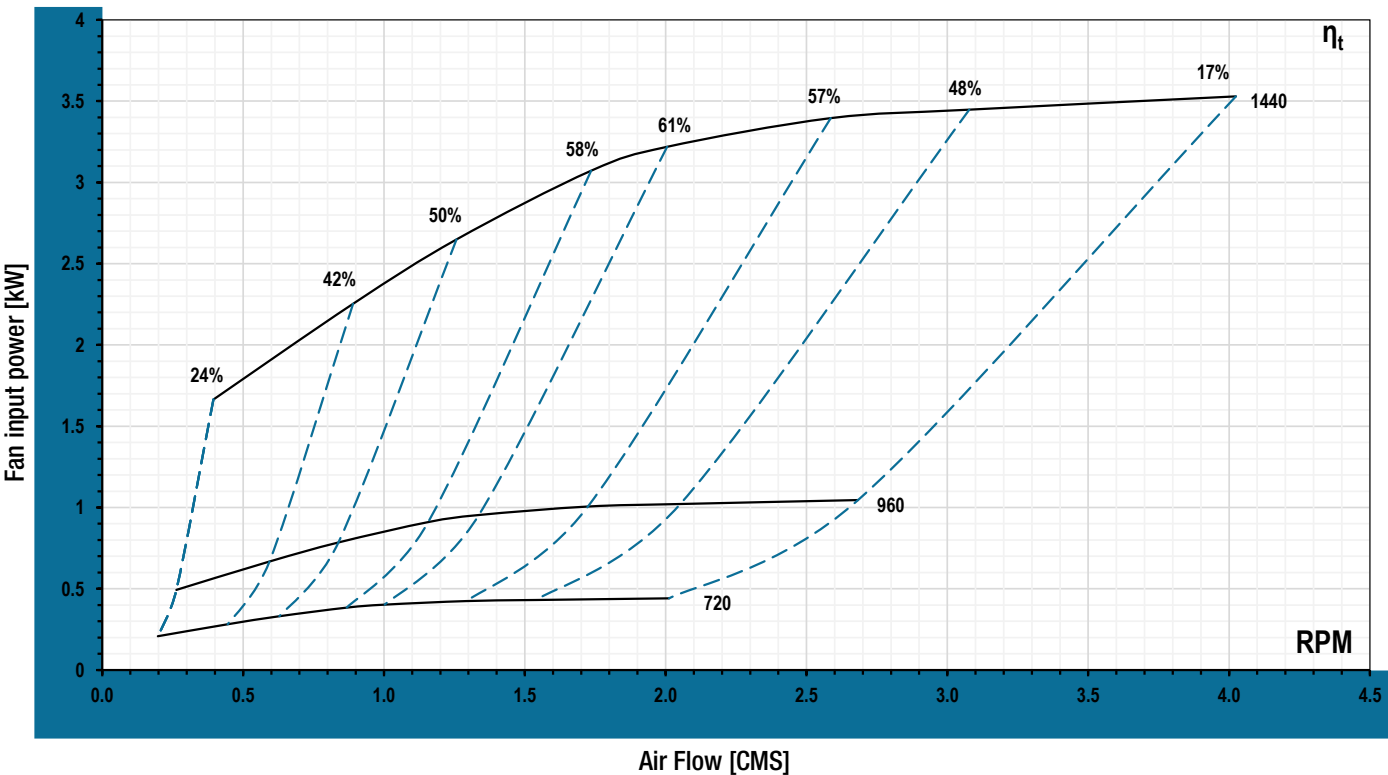
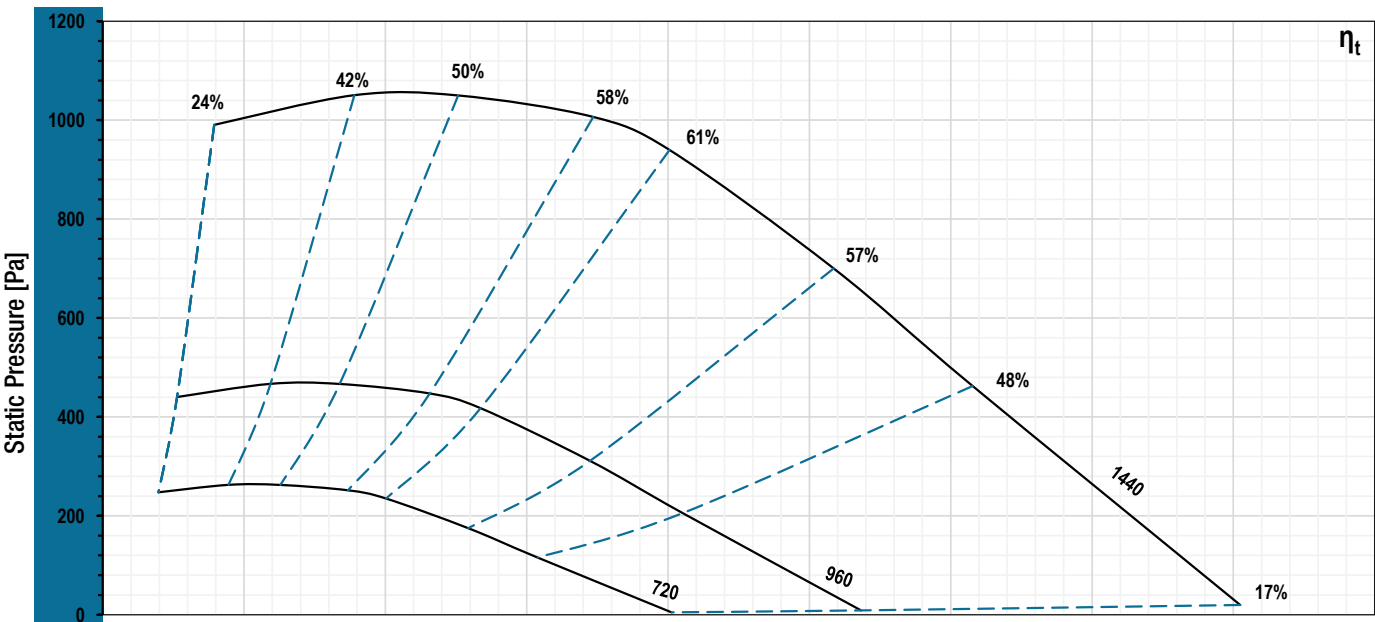
Technical Specifications

Performance Shown in diagrams refer to air density 1.2 kg/m³.
Performance tested is for installation type B - free inlet, ducted outlet.
Power rating (kW) does not include transmission losses.
Performance ratings do not include the effects of accessories.

BS ISO 5801 : 2017
AMCA 210 : 2025
Type B Installation



Curve Performance



CF-SIB-D-560

Acoustic Performance

Inlet Sound Power Level												
Fan Speed	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	Lwi (dB)	LwiA (dB)
1440 RPM	1.26	1050	84	83.2	87.9	84.7	83.8	74.7	70.2	66.2	93	87.2
	2.01	939.8	83.9	83.1	87.8	84.6	83.7	74.6	70.1	66.1	92.9	87.1
	2.59	700.3	86.4	83.6	88.3	85.1	84.2	82.3	77.4	73.9	93.4	89.2
960 RPM	0.84	466.7	78.7	77.9	82.6	79.4	78.5	69.4	64.9	60.9	87.7	81.9
	1.34	417.7	78.6	77.8	82.5	79.3	78.4	69.3	64.8	60.8	87.6	81.8
	1.72	311.2	79.1	78.3	83	79.8	78.9	69.8	65.3	61.3	88.1	82.3
720 RPM	0.63	262.5	75	74.2	78.9	75.7	74.8	65.7	61.2	57.2	84	78.2
	1.00	235	74.8	74	78.7	75.5	74.6	65.5	61	57	83.8	78.1
	1.29	175.1	75.4	74.6	79.3	76.1	75.2	66.1	61.6	57.6	84.4	78.6

Values shown are for (inlet Lwi and inlet LwiA) sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12 per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction.

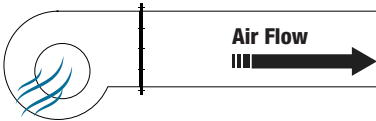
CF-SIB-D-630

CF-S Series

 Nominal Diameter
630 mm

 Impeller Type
SISW Backward

 Driver Type
Direct



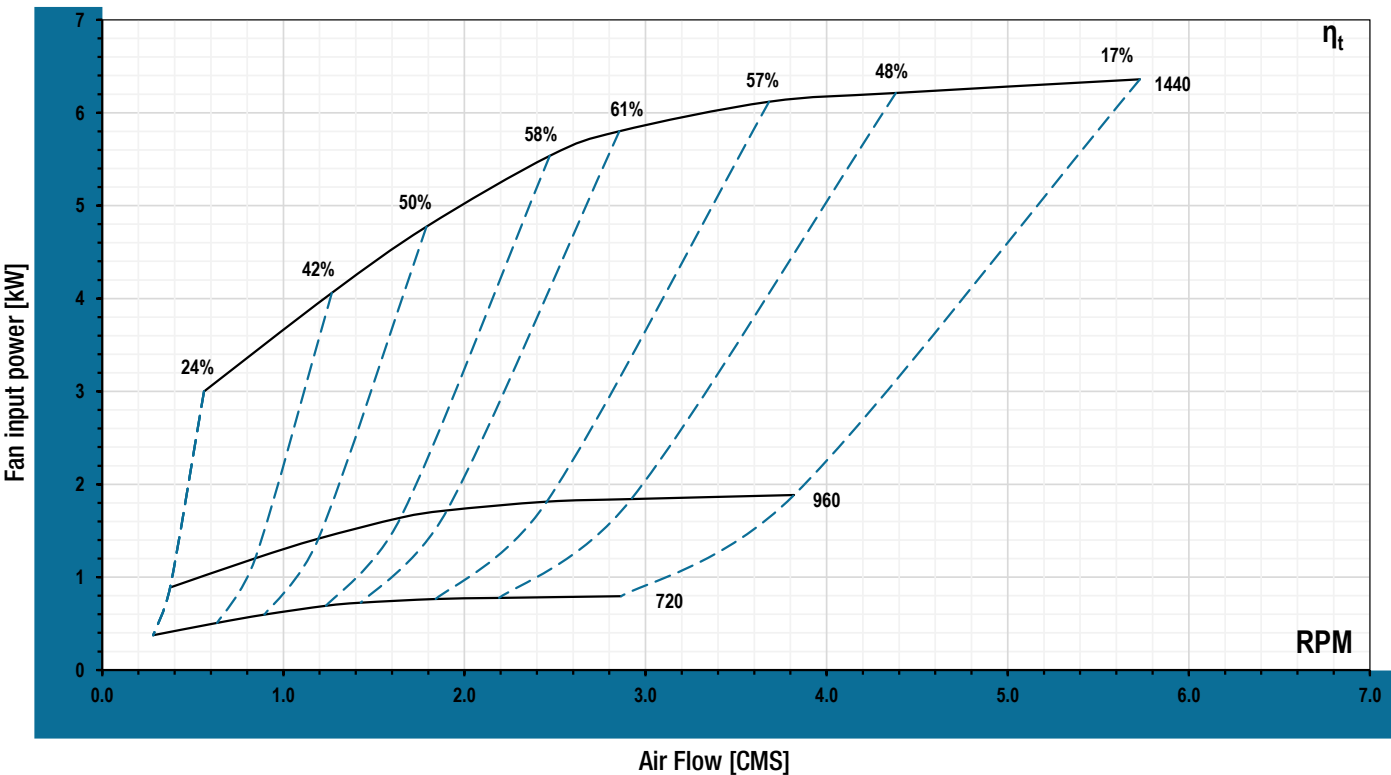
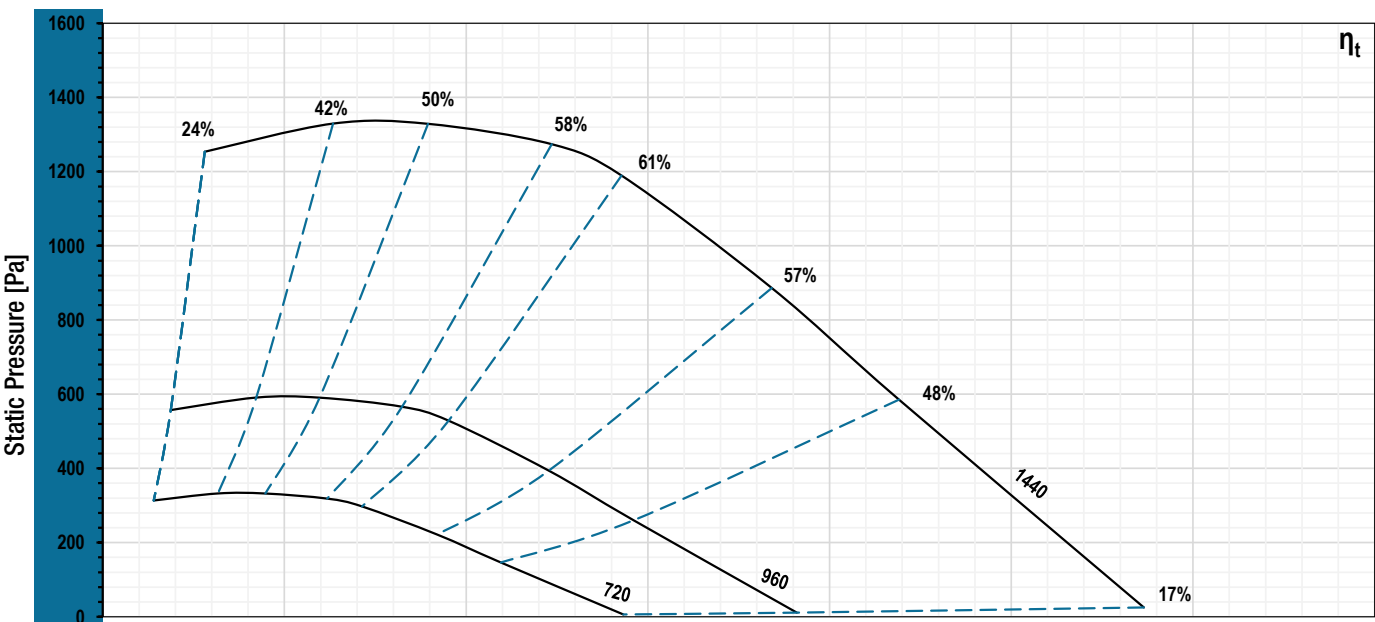
Technical Specifications

Performance Shown in diagrams refer to air density 1.2 kg/m³.
Performance tested is for installation type B - free inlet, ducted outlet.
Power rating (kW) does not include transmission losses.
Performance ratings do not include the effects of accessories.

BS ISO 5801 : 2017
AMCA 210 : 2025
Type B Installation



Curve Performance



CF-SIB-D-630

Acoustic Performance

Inlet Sound Power Level												
Fan Speed	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	Lwi (dB)	LwiA (dB)
1440 RPM	1.79	1328.9	86.6	85.8	90.5	87.3	86.4	77.3	72.8	68.8	95.6	89.8
	2.86	1189.4	88.4	85.6	90.3	87.1	86.2	84.3	79.4	75.9	95.4	91.2
	3.68	886.3	89	86.2	90.9	87.7	86.8	84.9	80	76.5	96	91.8
960 RPM	1.19	590.6	81.3	80.5	85.2	82	81.1	72	67.5	63.5	90.3	84.5
	1.90	528.6	81.2	80.4	85.1	81.9	81	71.9	67.4	63.4	90.2	84.4
	2.45	393.9	83.7	80.9	85.6	82.4	81.5	79.6	74.7	71.2	90.7	86.5
720 RPM	0.90	332.2	77.5	76.7	81.4	78.2	77.3	68.2	63.7	59.7	86.5	80.7
	1.43	297.4	77.4	76.6	81.3	78.1	77.2	68.1	63.6	59.6	86.4	80.6
	1.84	221.6	77.9	77.1	81.8	78.6	77.7	68.6	64.1	60.1	86.9	81.2

Values shown are for (inlet Lwi and inlet LwiA) sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12 per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction.

CF-SIB-D-710

CF-S Series



Nominal Diameter
710 mm



Impeller Type
SISW Backward



Driver Type
Direct

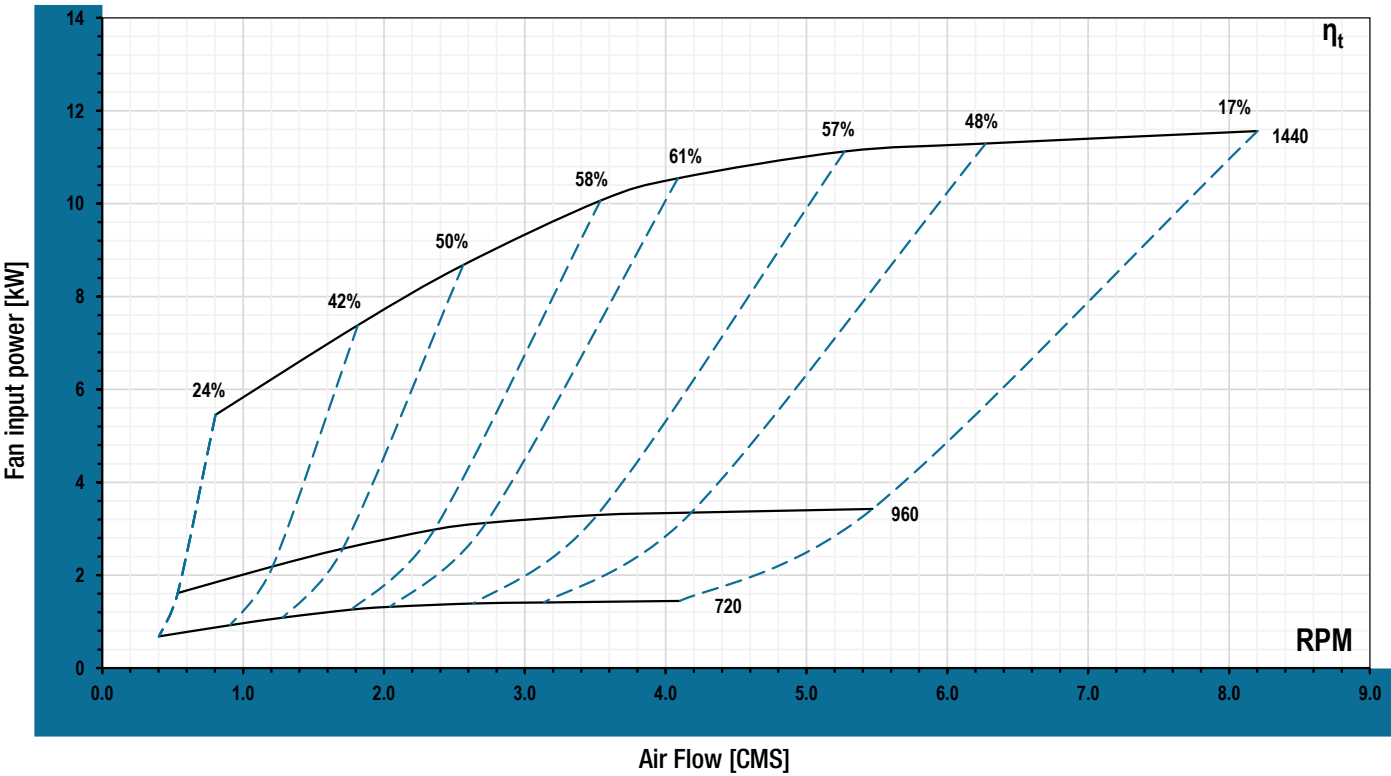
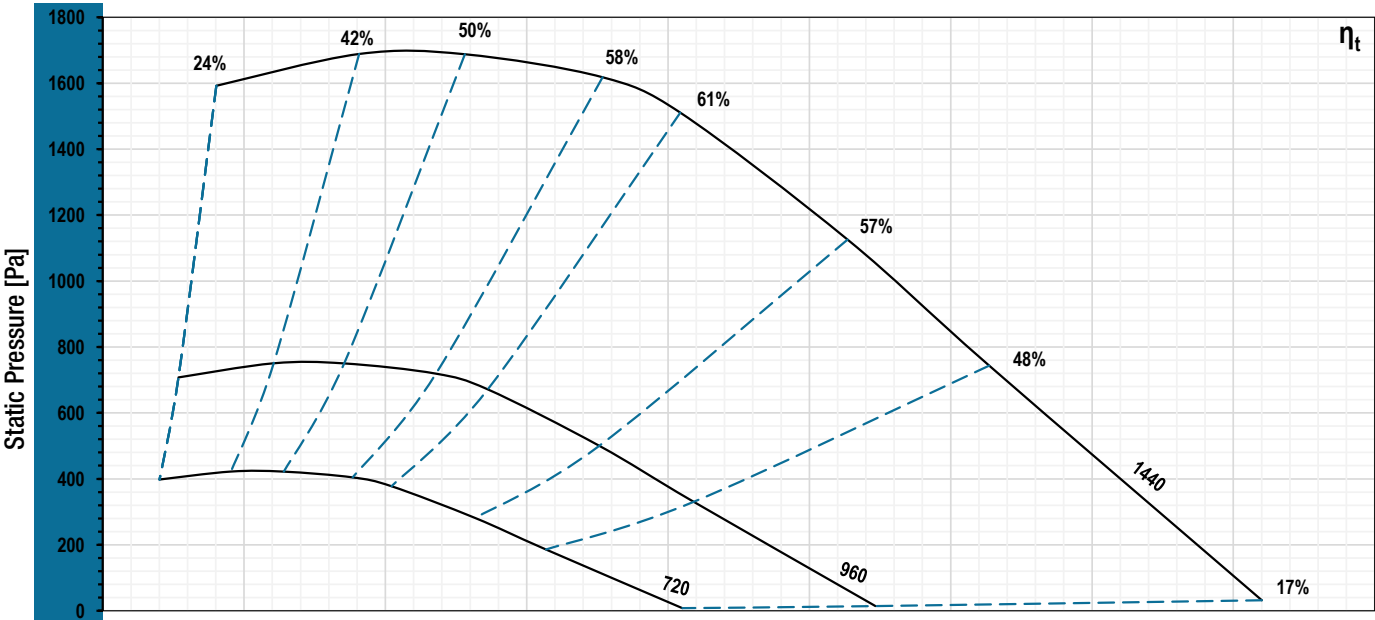


Technical Specifications

Performance Shown in diagrams refer to air density 1.2 kg/m³.
Performance tested is for installation type B - free inlet, ducted outlet.
Power rating (kW) does not include transmission losses.
Performance ratings do not include the effects of accessories.
BS ISO 5801 : 2017
AMCA 210 : 2025
Type B Installation



Curve Performance



CF-SIB-D-710

Acoustic Performance

Inlet Sound Power Level												
Fan Speed	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	Lwi (dB)	LwiA (dB)
1440 RPM	2.56	1687.8	91.2	88.4	93.1	89.9	89	87.1	82.2	78.7	98.2	93.9
	4.09	1510.7	91	88.2	92.9	89.7	88.8	86.9	82	78.5	98	93.8
	5.27	1125.6	91.6	88.8	93.5	90.3	89.4	87.5	82.6	79.1	98.6	94.4
960 RPM	1.71	750.1	83.9	83.1	87.8	84.6	83.7	74.6	70.1	66.1	92.9	87.1
	2.72	671.4	85.7	82.9	87.6	84.4	83.5	81.6	76.7	73.2	92.7	88.5
	3.51	500.3	86.3	83.5	88.2	85	84.1	82.2	77.3	73.8	93.3	89.1
720 RPM	1.28	421.9	80.1	79.3	84	80.8	79.9	70.8	66.3	62.3	89.1	83.3
	2.04	377.7	80	79.2	83.9	80.7	79.8	70.7	66.2	62.2	89	83.2
	2.64	281.4	82.5	79.7	84.4	81.2	80.3	78.4	73.5	70	89.5	85.3

Values shown are for (inlet Lwi and inlet LwiA) sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12 per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction.

CF-SIB-D-800

CF-S Series

Nominal Diameter
800 mm

Impeller Type
SISW Backward

Driver Type
Direct



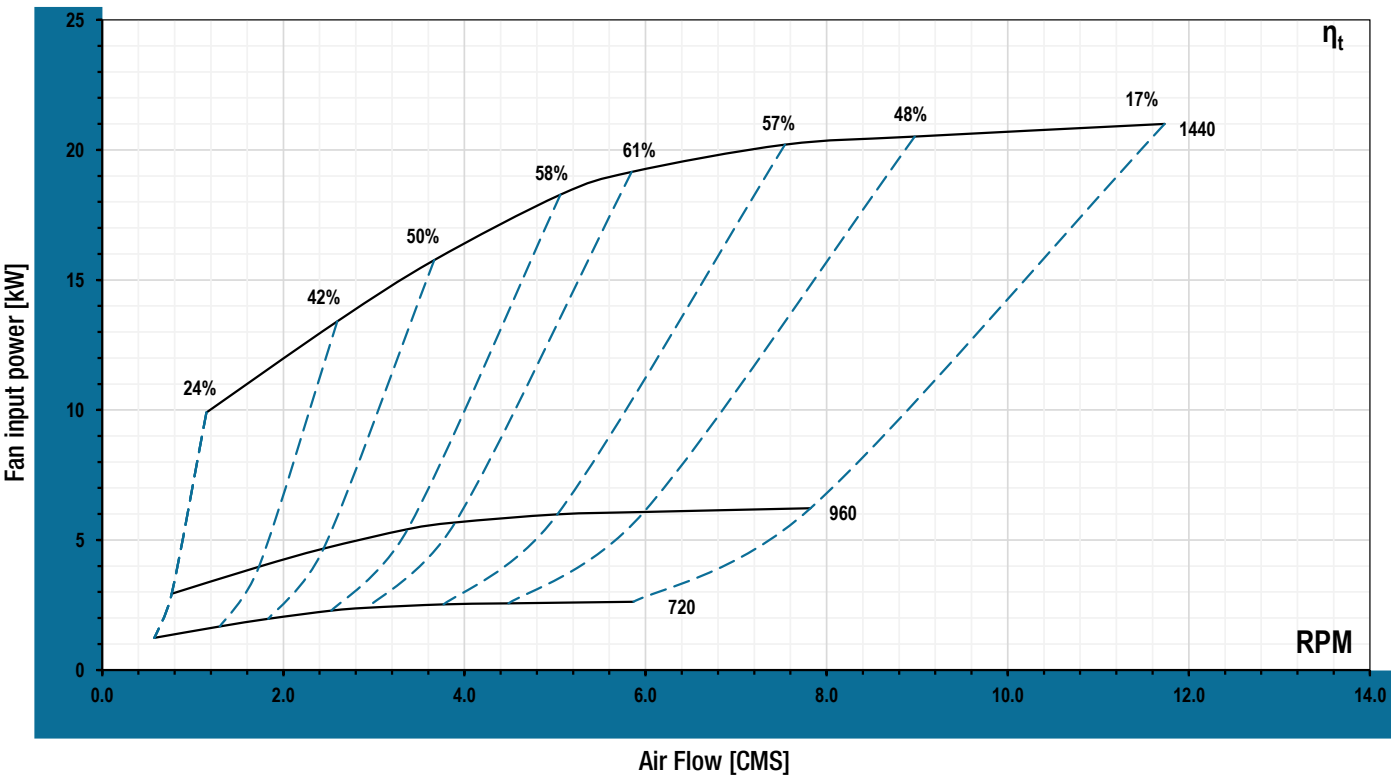
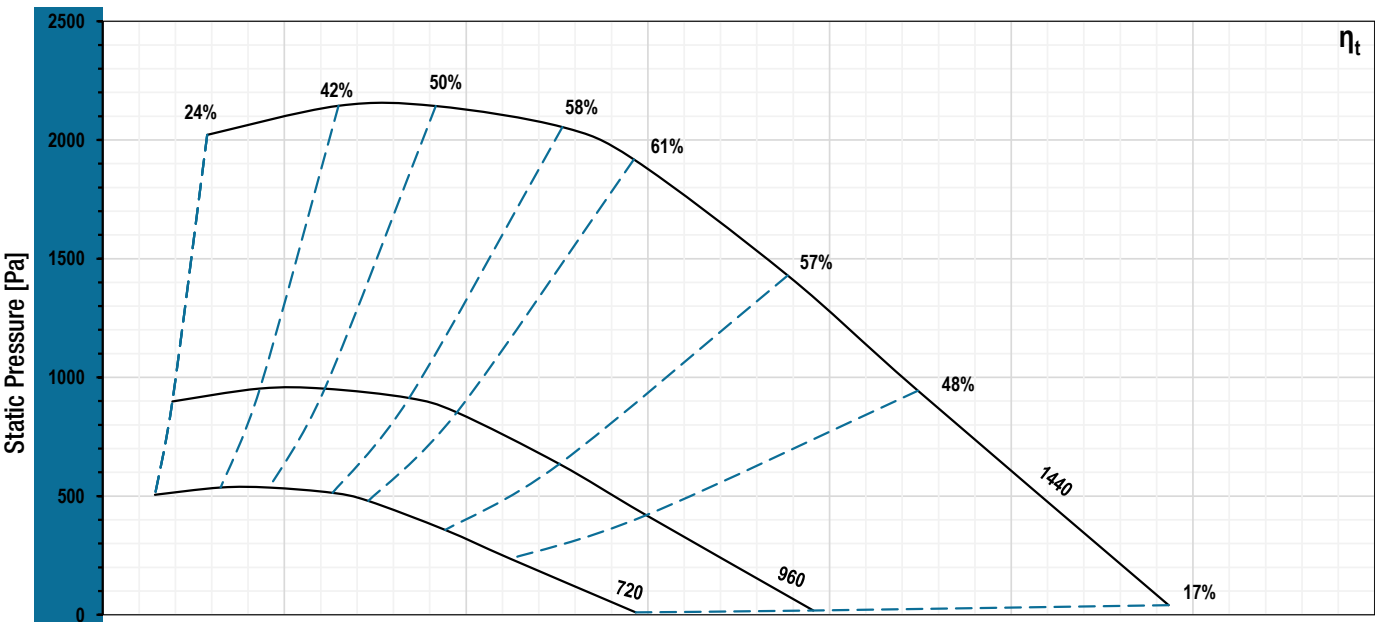
Technical Specifications

Performance Shown in diagrams refer to air density 1.2 kg/m³.
Performance tested is for installation type B - free inlet, ducted outlet.
Power rating (kW) does not include transmission losses.
Performance ratings do not include the effects of accessories.

BS ISO 5801 : 2017
AMCA 210 : 2025
Type B Installation



Curve Performance



CF-SIB-D-800

Acoustic Performance

Inlet Sound Power Level												
Fan Speed	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	Lwi (dB)	LwiA (dB)
1440 RPM	3.67	2142.8	93.7	90.9	95.6	92.4	91.5	89.6	84.7	81.2	100.7	96.5
	5.85	1918	93.6	90.8	95.5	92.3	91.4	89.5	84.6	81.1	100.6	96.4
	7.54	1429.1	94.2	91.4	96.1	92.9	92	90.1	85.2	81.7	101.2	96.9
960 RPM	2.44	952.4	88.5	85.7	90.4	87.2	86.3	84.4	79.5	76	95.5	91.3
	3.90	852.4	88.3	85.5	90.2	87	86.1	84.2	79.3	75.8	95.3	91.1
	5.03	635.2	88.9	86.1	90.8	87.6	86.7	84.8	79.9	76.4	95.9	91.7
720 RPM	1.83	535.7	82.7	81.9	86.6	83.4	82.5	73.4	68.9	64.9	91.7	85.9
	2.92	479.5	84.6	81.8	86.5	83.3	82.4	80.5	75.6	72.1	91.6	87.4
	3.77	357.3	85.1	82.3	87	83.8	82.9	81	76.1	72.6	92.1	87.9

Values shown are for (inlet Lwi and inlet LwiA) sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12 per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction.

CF-SIB-D-900

CF-S Series

Nominal Diameter
900 mm

Impeller Type
SISW Backward

Driver Type
Direct



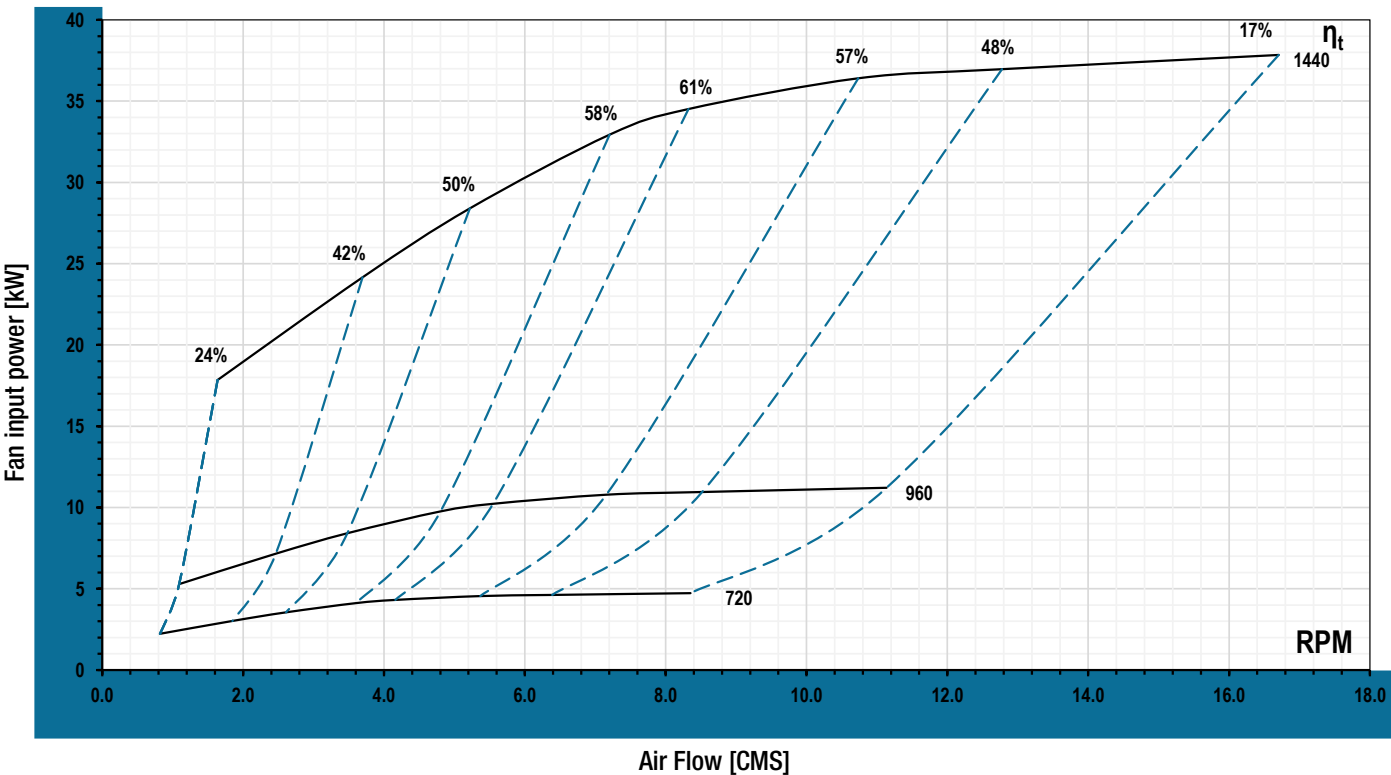
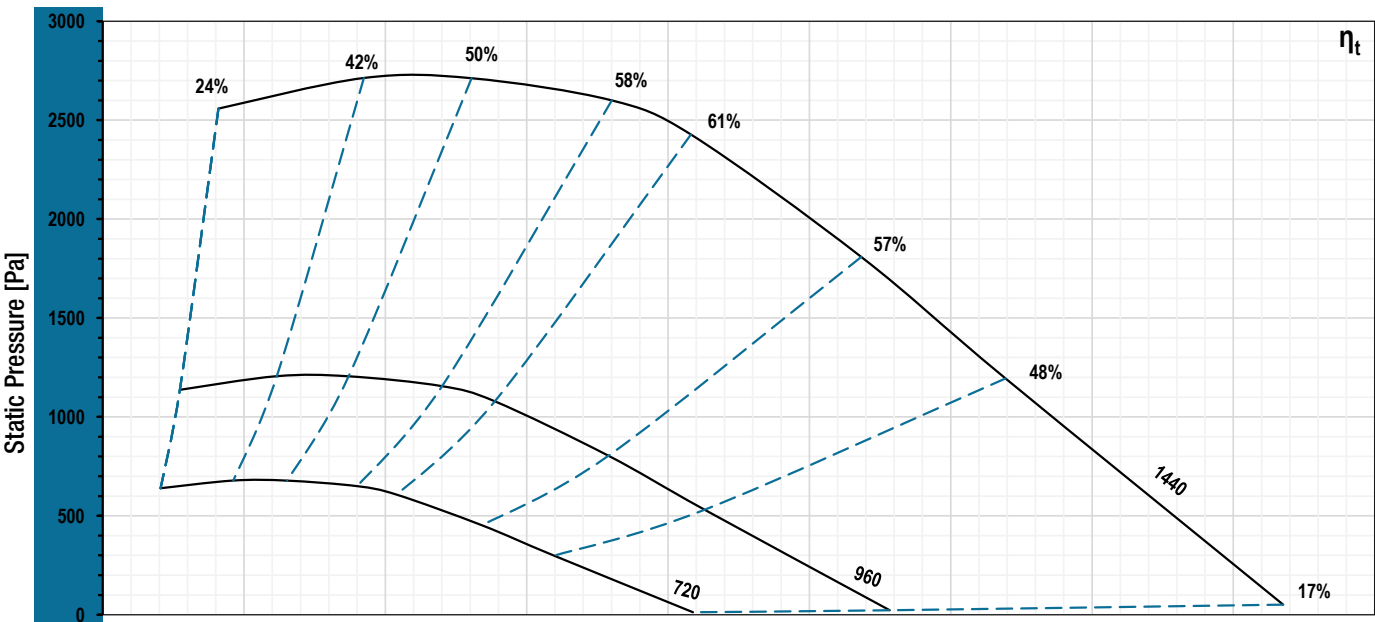
Technical Specifications

Performance Shown in diagrams refer to air density 1.2 kg/m³.
Performance tested is for installation type B - free inlet, ducted outlet.
Power rating (kW) does not include transmission losses.
Performance ratings do not include the effects of accessories.

BS ISO 5801 : 2017
AMCA 210 : 2025
Type B Installation



Curve Performance



CF-SIB-D-900

Acoustic Performance

Inlet Sound Power Level												
Fan Speed	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	Lwi (dB)	LwiA (dB)
1440 RPM	5.22	2712	96.3	93.5	98.2	95	94.1	92.2	87.3	83.8	103.3	99.1
	8.32	2427.4	96.2	93.4	98.1	94.9	94	92.1	87.2	83.7	103.2	99
	10.73	1808.7	96.7	93.9	98.6	95.4	94.5	92.6	87.7	84.2	103.7	99.5
960 RPM	3.48	1205.3	91	88.2	92.9	89.7	88.8	86.9	82	78.5	98	93.8
	5.55	1078.9	90.9	88.1	92.8	89.6	88.7	86.8	81.9	78.4	97.9	93.7
	7.16	803.9	91.4	88.6	93.3	90.1	89.2	87.3	82.4	78.9	98.4	94.2
720 RPM	2.61	678	87.3	84.5	89.2	86	85.1	83.2	78.3	74.8	94.3	90.1
	4.16	606.9	87.1	84.3	89	85.8	84.9	83	78.1	74.6	94.1	89.9
	5.37	452.2	87.7	84.9	89.6	86.4	85.5	83.6	78.7	75.2	94.7	90.5

Values shown are for (inlet Lwi and inlet LwiA) sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12 per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction.

CF-SIB-D-1000

CF-S Series



Nominal Diameter
1000 mm



Impeller Type
SISW Backward



Driver Type
Direct

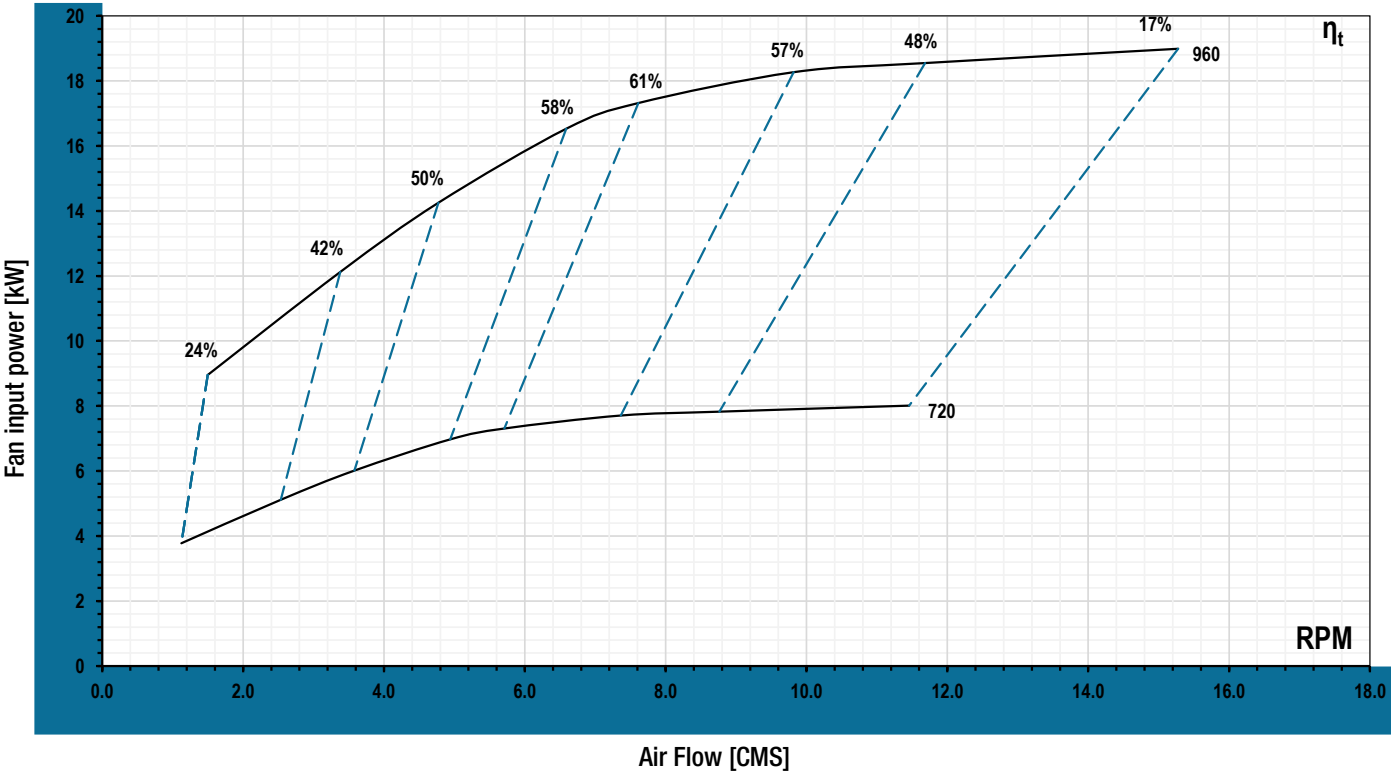
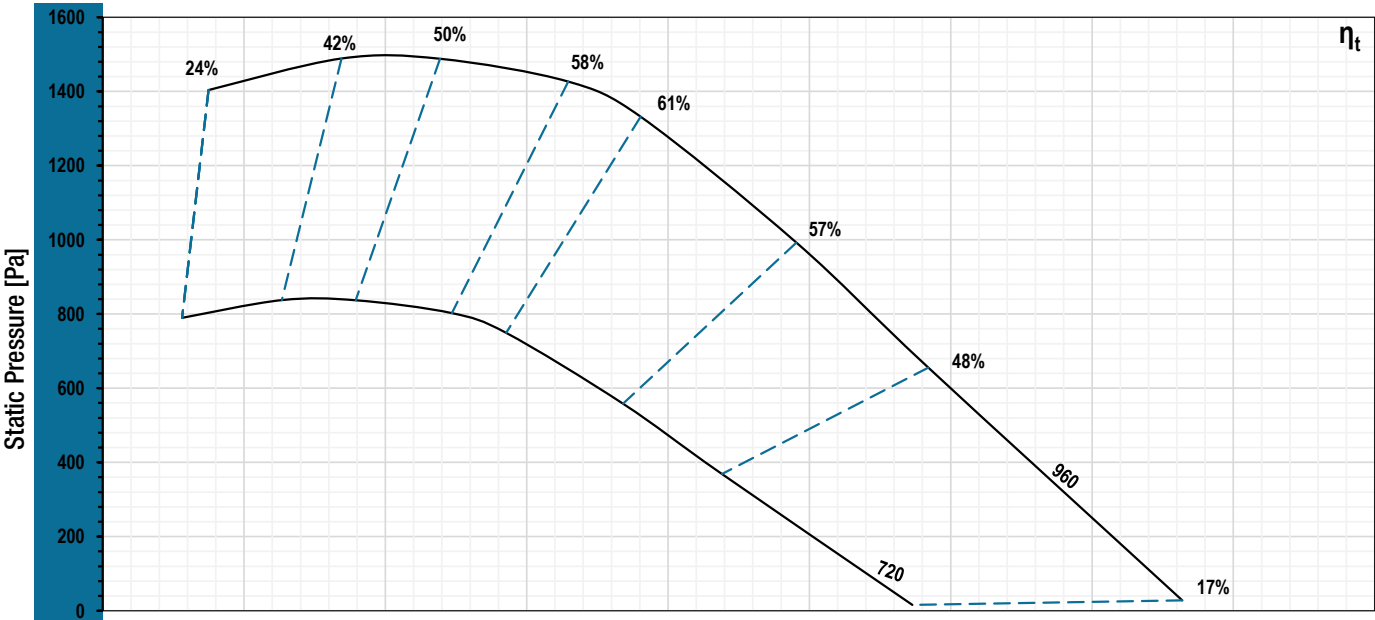


Technical Specifications

Performance Shown in diagrams refer to air density 1.2 kg/m³.
Performance tested is for installation type B - free inlet, ducted outlet.
Power rating (kW) does not include transmission losses.
Performance ratings do not include the effects of accessories.
BS ISO 5801 : 2017
AMCA 210 : 2025
Type B Installation



Curve Performance



CF-SIB-D-1000

Acoustic Performance

Inlet Sound Power Level												
Fan Speed	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	Lwi (dB)	LwiA (dB)
960 RPM	4.77	1488.1	93.3	90.5	95.2	92	91.1	89.2	84.3	80.8	100.3	96.1
	7.61	1331.9	93.2	90.4	95.1	91.9	91	89.1	84.2	80.7	100.2	96
	9.82	992.4	93.7	90.9	95.6	92.4	91.5	89.6	84.7	81.2	100.7	96.5
720 RPM	3.58	837	89.6	86.8	91.5	88.3	87.4	85.5	80.6	77.1	96.6	92.3
	5.71	749.2	89.4	86.6	91.3	88.1	87.2	85.3	80.4	76.9	96.4	92.2
	7.36	558.2	90	87.2	91.9	88.7	87.8	85.9	81	77.5	97	92.8

Values shown are for (inlet Lwi and inlet LwiA) sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12 per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction.



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